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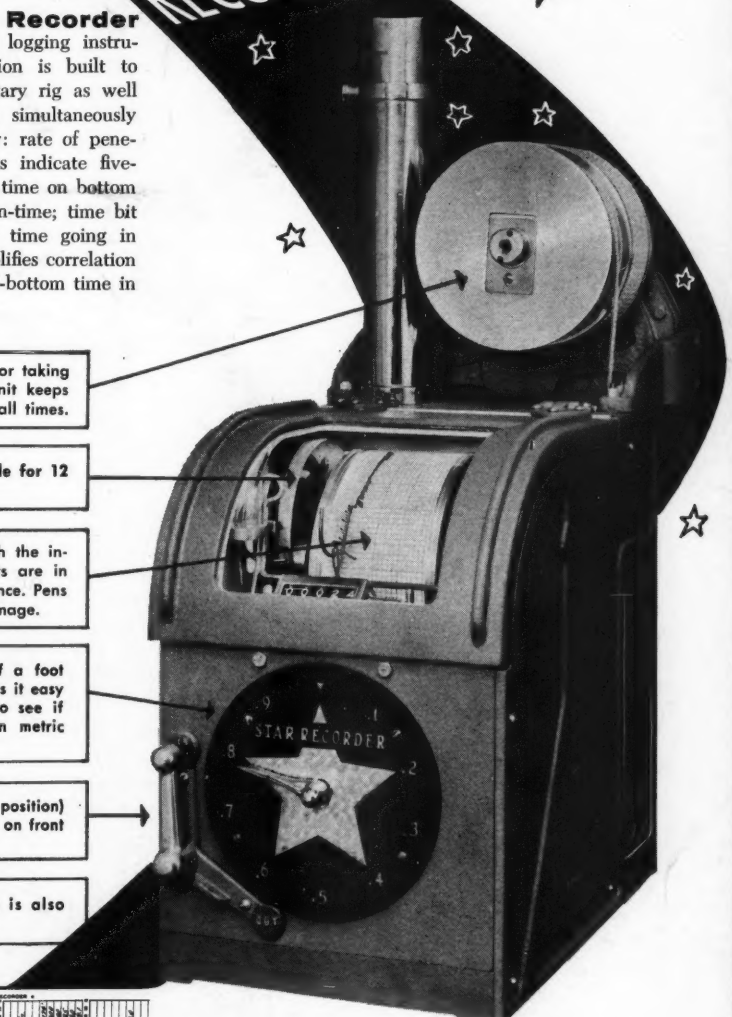

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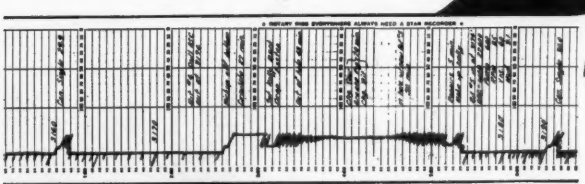

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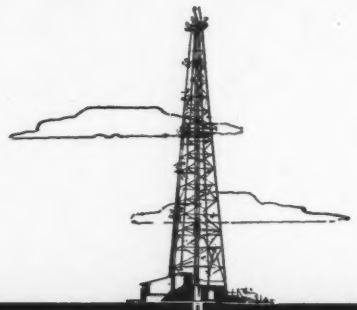

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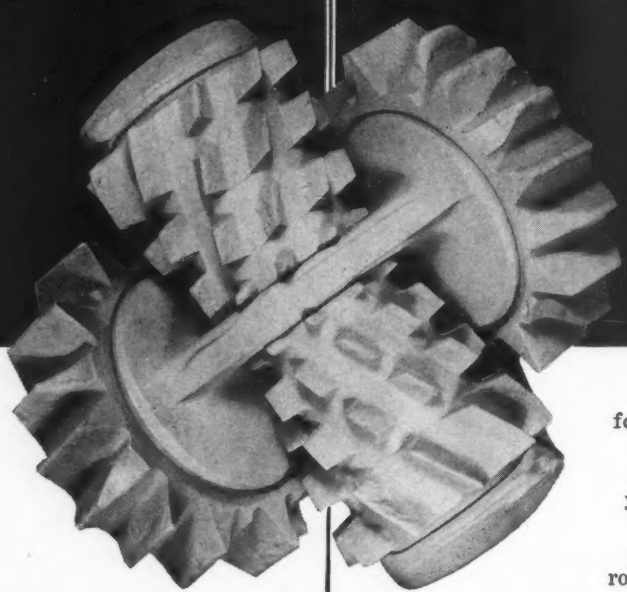

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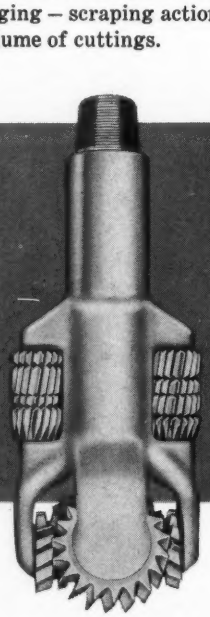

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CALIFORNIA
OIL WORLD

PUBLISHED TWICE A MONTH

2404 WEST 7th ST.
LOS ANGELES 57, CALIFORNIA

PETROLEUM PUBLISHERS, INC.
W. C. MONROE—President and Editor
KINZIE MILLER—Vice President
LARRY O. MILLER, Advertising Manager
RICHARD SNEDDON, Contributing Editor

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Room 517, 205 W. Wacker Dr., Chicago 6, Ill.
HOWARD F. McCLENAHAN—Cleveland Manager
1900 Euclid Avenue, Cleveland 15, Ohio
The McKeown Company—New York Representatives
342 Madison Avenue, New York 17, N. Y.

• SECOND ISSUE
APRIL, 1958
VOL. 51 • NO. 8
WHOLE NO. 1990

California Oil World is published twice a month at 2404 West 7th St., Los Angeles 57, California. Entered as Second-Class Matter, April 29th, 1944, at the post office at Los Angeles, California, under the Act of March 3, 1879. Subscription price $1 per year in U. S. and possessions, $2 in foreign countries including Canada.

Telephone DUnkirk 2-6218
April 30th, 1958

PRELIMINARY PROGRAM
A. P. I. DIVISION OF REFINING

There will be eleven Technical Group Sessions and a Dinner Session, all to be held at the Statler, as follows:

MONDAY, MAY 12, 1958

9:00 a.m. CORROSION

Presiding: P. N. Gammelgard, The Pure Oil Co., Chicago, Ill.

(Session developed by C. H. Samans, Standard Oil Co. (Indiana), Whiting, Ind.)

A Study of the Mechanism of the Iron-Hydrogen Sulfide Reaction at Elevated Temperatures.

Fritz Hugli, Charles M. Hudgins, and Paul Delahay, Louisiana State University, Baton Rouge, La.

Corrosion Experiences in Sovaformers with Naphtha Preheaters.

E. B. Backensto, Socony Mobil Oil Co., Inc., Paulsboro, N. J. and R. W. Manuel, Socony Mobil Oil Co., Inc., New York, N. Y.

Solutions to Corrosion Problems in Light Hydrocarbons Liquids Plants.

James S. Conners and C. L. Seyer, Phillips Petroleum Co., Bartlesville, Okla.

Corrosion Studies in Alkanolamine Systems.

J. D. Sudbury, O. L. Riggs, and J. F. Leterle, Continental Oil Co., Ponca City, Okla.

A Refinery Chemical Cleaning Program for Profit.

John Zahodnick, Esso Standard Oil Co., Linden, N. J.

2:00 p.m. PIPING

(Session developed by J. P. Mooney, Humble Oil and Refining Co., Baytown, Texas.)

The Influence of Prolonged Service at Elevated Temperatures and Pressures on the High-Temperature Strength of Chromium-Molybdenum Alloy Tubing.

John F. Ewing, The Babcock and Wilcox Co., Beaver Falls, Pa.

Compressor Piping Design and Investigations Including Application of Computers to Piping Calculations.

Ralph James, Humble Oil and Refining Co., Baytown, Texas.

Stability of Tubular Products for Oil Refinery Use.

A. B. Wilder, United States Steel Corp., Pittsburgh, Pa.

2:00 p.m. ANALYTICAL RESEARCH

(Session developed by B. J. Heinrich, Phillips Petroleum Co., Bartlesville, Okla.)

A Mathematical Approach to Operating an Analytical Laboratory (Computer Simulation of Laboratory Operations).

G. V. Dyroff and F. E. Steidler, Esso Research and Engineering Co., Linden, N. J.

The Automatic Determination of Peroxides in Petroleum Products.

Joseph S. Matthews and Joan S. Patchan, Gulf Research and Development Co., Pittsburgh, Pa.

The Determination of Sediment in Light Petroleum Products.

F. A. Buehler and J. S. Wiberley, Socony Mobil Oil Co., Inc., Brooklyn, N. Y.

Volatile Catalyst Components Determined Easily by the Leco Induction Furnace.

Anne L. Conrad, Jean K. Evans, and V. Frances Gaylor, The Standard Oil Co. (Ohio), Cleveland, Ohio.

Determination of Microgram Quantities of Sulfur by Reduction with Raney Nickel.

Lawrence Granatelli, American Oil Co. (Texas), Texas City, Texas.

Quantitative Infrared Analysis of Polybasic Aromatic Acids in KBr Disks.

D. E. Nicholson, Humble Oil and Refining Co., Baytown, Texas.

Micro-Carbon and Hydrogen Determination by Automatic Combustion Control.

Ervin Stehr, The Texas Co., Beacon, N. Y.

7:30 p.m. ANALYTICAL RESEARCH

(Session developed by B. J. Heinrich, Phillips Petroleum Co., Bartlesville, Okla.)

The Separability of Aromatic Hydrocarbons by Pentane Elution from Activated Alumina.

Lloyd R. Snyder, Union Oil Co. of California, Brea, Calif.

Determination of Surface Area — Adsorption Measurements by a Continous Flow Method.

F. M. Nelsen and F. T. Eggertsen, Shell Development Co., Emeryville, Calif.

A Simple Light-Absorption Meter for the Estimation of Material In-

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soluble in Used Lubricating Oils.

F. S. Alvey and R. L. Martin, British Petroleum Co., Ltd., Sunbury-on-Thames, England.

Determination of Bromine Numbers with Electrically Generated Bromine and Spectrophotometric Detection of the End Point.

John W. Miller, M. D. Grimes, and B. J. Heinrich, Phillips Petroleum Co., Bartlesville, Okla.

The Variable Influence of Automotive Fuel Type on Exhaust Composition.

R. W. Hurn, Bureau of Mines, Bartlesville, Okla.

Quantitative Determination of Platinum in an Alumina-Base Reforming Catalyst by X-Ray Spectroscopy.

Arnold J. Lincoln, Baker and Co., Newark, N. J. and Edwin N. Davis, Sinclair Research Laboratories, Harvey, Ill.

TUESDAY, MAY 13, 1958

9:00 a.m. PROCESSES

Presiding: H. Y. Hyde, Tidewater Oil Co., San Francisco, Calif.

(Session developed by F. C. Moriarty, Aurora Gasoline Co., Detroit, Mich.)

Bulk Acid Polymerization of Motor Gasoline.

California Research Corp., San Francisco, Calif.

New Developments in Refining Petroleum.

Universal Oil Products Co., Des Plaines, Ill.

Catalytic Cracking Feed Preparation.

M. V. Medlin, J. C. Ornea, and A. J. Johnson, Shell Development Co., Emeryville, Calif.

9:00 a.m. FUELS

Presiding: A. L. Lyman, California Research Corp., San Francisco, Calif.

(Session developed by J. F. Socolofsky, Socony Mobil Oil Co., Inc., Paulsboro, N. J.)

The Role of Physical Factors in Knock.

Ellis B. Rifkin, Ethyl Corp., Detroit, Mich.

Studies of the Chemical Reactions Occurring in an Engine Prior to Knock.

R. H. Blaker, A. J. Pahnke, and K. J. Pipenberg, E. I. du Pont de Nemours and Co., Inc., Wilmington, Dela.

Knock Characteristics of Hydrocarbon Mixtures.

Eric J. Y. Scott, Socony Mobil Oil Co., Inc., Paulsboro, N. J., Chairman of the Subcommittee on Rating of Hydrocarbon Mixtures of API Project 45.

2:00 p.m. PRESSURE LEVELS

Presiding: R. E. Lauterbach, General Petroleum Corp., Los Angeles, Calif.

(Session developed by N. J. Rees, Socony Mobil Oil Co., Inc., New York, N. Y.)

Design of Skirt Supports for Pressure Vessels in High-Temperature Cyclical Service.

D. B. Rossheim, The M. W. Kellogg Co., Jersey City, N. J.

Considerations Involved with the Possible Use of Increased Design Stresses for Pressure Vessels and Their Effect on Safety.

George E. Fratcher and A. F. Cota, A. O. Smith Co., Milwaukee, Wis.

Survey of Brittle Characteristics of Carbon Steels Used for Pressure Vessels.

F. B. Hamel, The Standard Oil Co. (Ohio), Cleveland, Ohio.

Who Should Foot the Bill for Research and Development of New Steel Materials?

C. L. Huston, Jr., Lukens Steel Co., Coatesville, Pa.

2:00 p.m. TRAINING

(Session developed by G. B. Stone, Union Oil Co. of California, Rodeo, Calif.)

Theme: The Dimension of Knowledge Needed by Today's Management People.

Laurence de Ryke, Occidental College, Los Angeles, Calif. Robert F. Smith, University of California at Los Angeles, Los Angeles, Calif.

7:30 p.m. PROCESSES

(Session developed by F. C. Moriarty, Aurora Gasoline Co., Detroit, Mich.)

Improvement of Catalytic Cracking Feedstocks by Hydrogenation.

M. D. Abbott, R. C. Archibald, and R. W. Dorn, Shell Development Co., Emeryville, Calif.

Commercial Desulfurization Experience.

Union Oil Co. of California, Los Angeles, Calif.

WEDNESDAY, MAY 14, 1958

9:00 a.m. AIR POLLUTION

(Session developed by C. A. Jones, Shell Oil Co., Wilmington, Calif.)

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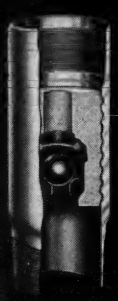

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This is the new Baker FLEXIFLOW Fill-Up Shoe (Product No. 160). Permits casing to fill from the bottom through a hole in a flexible diaphragm that opens up to relieve dangerous high pressure surges, and closes down to control casing fill. Cuts casing running time by as much as one-third. Ask for Catalog Supplement No. 325.

This is the Baker Cement GUIDE Shoe usually run in combination with Baker FILL-UP Collars, or Float Collars when one back pressure valve is considered sufficient. Safely guides casing to bottom. Specify Product No. 102.

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Investigations to Detect the Atmospheric Conversion of Sulfur Dioxide to Sulfur Trioxide.

Albert L. Chaney, Albert L. Chaney Chemical Laboratory, Glendale, Calif.

The Effect of Organic Materials in the Atmosphere on Vegetation.

John Middleton and Ellis Darley, University of California, Riverside, Calif., and E. R. Stephens, The Franklin Institute, Philadelphia, Pa.

Effect of Operating Variables on Automobile Exhaust Gas Composition.

C. M. Heinen, Chrysler Corp., et al.

2:00 p.m. WASTE DISPOSAL

Presiding: K. E. Kingman, Union Oil Co. of California, Los Angeles, Calif.

(Session developed by J. H. Easthagen, California Research Corp., Richmond, Calif.)

Pollution Control at Ferndale, Washington.

E. K. Daniels, L. A. Castler, and J. R. Lutz, General Petroleum Corp., Los Angeles, Calif.

Waste Disposal Facilities at the Anacortes Refinery.

Shell Oil Co.

New Non-luminous, Smokeless Flare.

Esso Research and Engineering Co., Linden, N. J.

7:00 p.m. DINNER SESSION

Presiding: H. W. Ferguson, Vice President for Refining (American Petroleum Institute): Humble Oil and Refining Co., Houston, Texas.

(Session developed by David E. Day, Richfield Oil Corp., Los Angeles, Calif.)

Oil Futures Pays Taxable

Congress is expected to get busy on related legislation now that the Supreme Court has ruled that payments for rights to future production of oil are taxable as ordinary income and not at the lower capital gains rate. The unanimous opinion was based on a type of transaction known in the petroleum industry as an "oil payment." It has been explained that the so-called "oil payment right" entitled the holder to receive a specified sum of money which would be paid out of a particular part of production and entirely free from expenses associated with the production. With receipt of the sum, the holder's interest then becomes satisfied and the person who assigned the right originally gets it back again. It was the Government's view that the lump sum received for the oil payment was simply cut out of a larger mineral interest and profits, therefore, were taxable as ordinary income.

Demand for petroleum products during the current year are foreseen by President Albert L. Nickerson of Socony Mobil Oil as running about one per cent ahead of a year ago.

Arnold S. Bunte, Denver National Bank geological engineer, has retired and is making his residence in Santa Fe, New Mexico. He is not ready to give up his long-time petroleum interests and will be at hand for consultant services.

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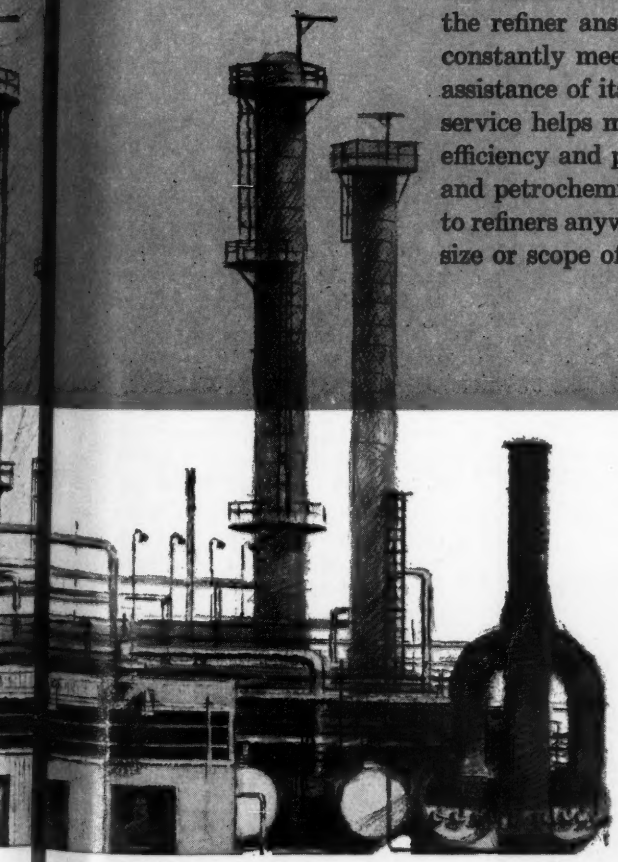

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The Oil Scout

This section would be woefully incomplete without an additional word or two about the oil scout, a colorful chap who has written some exciting adventure into the history of petroleum. He derives his name from the Latin SCUTARE, "to listen" but has really had to do much more than listen in order to earn the reputation that he now enjoys. The current representative of this once daring order is a bit smaller than a landman, physically, and is broader than, but not so verbose as, a lawyer. In the matter of conversation conservation, indeed, he has been favorably compared to the world's most inarticulate person, the Canadian backwoods hunter, who rarely opens his trap more than once during the long winter season.

A Dangerous Occupation

Certainly, although he must be positively bursting with interesting information, the oil scout remains adamantly mum. In an active area his comings and goings are as soundless as the movements of a felt-slippered mouse, and he never answers any questions, he only asks them! There was a time, too, when he was obliged to emulate the grouse and wear clothes that blended with the scenery if he didn't want to be picked off by an irate sniper. But that has all changed! Today, his occupation is still interesting, even exciting, but there is no more melodrama in it, than one would find in a Scottish suburb on the sabbath.

The No Dope Hole

Almost since the beginning of things oily we have had with us "the mystery well", or as it is presently termed "the no-dope hole!" This is a well that is drilled in secret from which every effort is made to keep away information seekers, whether they be professionals or just the common excavation-watching variety of kibitzer. In the past, some quite strenous methods have been employed to shut things off from the prying and questing of the curious. Boarded-up rigs, rifles, shotguns, and a diversity of other dissuasive wiles and weapons have been used to good effect.

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How It All Began

Late in 1859 Colonel Drake completed the well that started the petroleum industry, as we now know it, on its riproaring way. This well, with the aid of a pump, yielded approximately 40 barrels of oil a day. That is not much even when measured by current shinking California standards. But, the price was enticing, $20 a barrel, so, as might be expected, the success was followed by a hectic scramble for adjacent lands and leases and in a short time the territory about Titusville, Pa., had more crustal perforations than a hunk of pumice.

The Year of Flowing Wells

During the remainder of '59 and through '60, oil production rose rapidly but not spectacularly. Many of the successfully completed wells had to be "put on the pump", and only a few came in flowing of their own volition. However, 1861 has been characterized as "the year of flowing wells." In this year, big wells each yielding 2000 to 3000 barrels a day, began to come in here and there, usually before the producers were ready. Storage facilities were inadequate to take care of the deluge, and barrels were just not available in sufficient quantity, hence very soon crude oil was spilling over the landscape, running down the streams, and generally not only creating a serious hazard, but at the same time wreaking unimaginable devastation. If there is anything that can make a pretty countryside less attractive than a bath in crude oil, it has been omitted from all the authoritative lists of countryside debeautifiers with which I am familiar.

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Effect on Price

Fortunately, in these modern times with ultra-safe equipment, and finger-tip control of every operational move, it is practically impossible for oil from a producing well to go anywhere else but into the receiving tanks. The surrounding territory, thus, throughout and following the drilling process, retains all its original drabness or attractiveness, as the case may be. Getting back on the beam, however, a perfectly logical but nonetheless distressing effect of the particular oleic rampage that took place in 1861 was the new petroleum industry's first major disaster . . . a well fire in which 19 people were burned to death and many more were seriously injured. Another effect, and an equally logical one, was that the price of crude oil dropped from $20 to 10 cents a barrel.

Preventive Measures

Quite naturally, all this trouble, and especially a jittery market that reacted wildly to every rumor and spurred oil operators to a deliberative session or two, during which they took a critical look at their own methods and facilities. One of their first corrective measures was to stop circulating well information that might adversely affect oil prices or be advantageous to rival operators and speculating land brokers. Certain oil operators completely closed off the releases of well data. Scheming promotors did the same thing with the express purpose of influencing prices, and mystery wells with their barricades and gun-toting guards became quite common.

The Petroleic Pinkertons

It is an interesting illustration of the innate combativeness of all mankind, that no sooner does any individual or group set up prohibitions and defenses, than other individuals and groups begin devising what they hope will be effective counter-measures. The almost immediate answer to the derrick patrol, for example, with his loaded shotgun, was the eagle-eyed oil scout with his high-power binoculars. In the early days of the industry, these petroleic Pinkertons were a tenacious lot. They stuck to their watching posts through the long, cold night hours; literally crept under gun muzzles to garner the real hot stuff; and were continually in danger of absorbing a charge of birdshot, perhaps even a rifle bullet.

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V. J. Fawcett

Now that Major League Baseball has come to the Pacific Coast, we would like to invite our friends and customers to phone or write for a copy of the "1958 Baseball Handbook and Schedules". This handy pocket size booklet was compiled and edited by International News Service.

Here is a world of baseball information and this fine manual contains such special features as

- **Major and Minor League Schedules.**
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It is free for the asking, with Lufkin's compliments. Please rest assured there are no strings attached, such as "one copy with each Lufkin Gear box top," nor do you have to send in the name plate from one of your Lufkin Oilfield Pumping Units. "Dodger" fans or "Giant" fans will find this guide to be of equal value.

Copies may be obtained by phoning LUdlow 5-1201, or write to 5959 So. Alameda Street, Los Angeles 1, California. While they last!

Lufkin FOUNDRY & MACHINE COMPANY

The Pre-Requistes

There are many ways, indeed, in which the scout makes his contribution. At first, like the early diviners and doodlers, he was not too well qualified or equipped to do his sleuthing with any semblance of logic. His principal requirements then were sharp eyes, keen ears, plenty of nerve, infinite patience, and the ability to dodge the occasional guided missile. And, of course, it was during this dim and distant period that he added his smidgen of drama to the acquisitory arts.

The Scout Graduates

Down through the years, as has occurred in every phase of petroleum operation, scouting has undergone a constant evolutionary development that has greatly sharpened the perceptive powers of its practitioners and at the same time has considerably enhanced their value to the industry. The modern oil scout in most instances is a university graduate, with a degree either in geology, or petroleum engineering, or both. If he lacks education in either one of these subjects, the lack is more than likely offset by long years of field experience. In any case, he is usually familiar with the geology of the area in which he is working, and can piece together a remarkably accurate story of the sub-surface from an occasional squint at the core sample trays.

Knows All The Signs

In addition, he is thoroughly conversant with drilling techniques and can not only tell at a glance what particular operation is going on at any given moment, but can quite often tell by the behavior of the tools what sort of formation the drill is penetrating or not penetrating. As a matter of fact, he knows all the pertinent drilling-rig signs and their portents, and, if unusually expert, can translate the expressions on the faces of the rig crews back into their causes, which is a pretty frightening thing.

Data Picker-Upper

He recognizes all the stages of the incidental services, such as cementing, coring, logging, formation testing, etc., which will be discussed more fully later. Indeed, there is little in the way of clues to what is happening on a drilling rig, under it, or around it, that is not completely understandable to this pastmaster in the deductive processes. While he is in the vicinity of a well, he may, and does, pick up information about regional land ownerships, land values, fermenting deals, pending installations of petroleum facilities, and lots of other matters affecting the lands and leasing problem. Frequently these data are also of import to related departments of his company or his client's company.

No More Skulking

He is by all means an exceedingly useful chap in the present scheme of things petroleic and it is perhaps because of this that, whereas he was once virtually an outlaw with a price on his head, he is now an upstanding and respected citizen and the only price on his head is inside a black Homburg. He no longer has to skulk in caves and abandoned condor nests in order to get the latest word. His present day vantage points are such lush retreats as the game room at the petroleum club where in a noontime domino joust he can pick up inside information and a few pfennigs at the same sitting; and the 19th hole at his local golf club where the sod lofters, any of whom might be working on a well or land deal between games, meet to relax and expound.

Exchange of Information

Being acquainted with all the other oil scouts in his district he can occasionally trade a bit of information on this development for an equally valuable bit on that. He even meets periodically with his brother sleuths in a conventicle, known as the National Oil Scouts and Landmen's Association. Actually these meetings are for the purpose of compiling data, keeping maps up-to-date, and I seem to remember that the California chapter of this August body was once, perhaps still is, responsible for the standardization of nomenclature respecting zones and pools in the producing areas.

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Under Cover Stuff

While ostensibly the gathering of the clans and septs has nothing to do with the sub rosa developments of the moment, there can be no doubt that being in the presence of so much cashable information must arouse the acquisitive yen in a few palpitating breasts. However, it should again be noted that in the matter of keeping a secret secret no one is in a class with the experienced oil scout. He will tell you all about it when the time has come and it is safe to do so, but until then, compared with him the Sphinx is an old blabbermouth.

Varieties of Scout

It should be noted that there are several distinctive kinds of scout. The oil company man, for example being on an expense account, has a reasonably well nourished and generally self-satisfied appearance. He may be one of many (depending on the size of the organization he represents), under the direction of a chief scout, but whether or no, he wanders freely about the oil fields, is widely acquainted and well regarded, and if he comports himself with a decent measure of social decorum, can even frolic on the same stratigraphic level as the geoscientific fellows.

The Free Lancers

There is also a sort of unattached scout, on the other hand, who, like Cassius "hath a lean and hungry look." This chap is strictly on his own, an oil field opportunist, if you please, who barters his gleanings to anyone he can sufficiently impress, and whose banjo eyes are the inevitable result of long sustained search, first, for inside information, and, second, for a well-heeled and otherwise compatible client, who is eager to use it.

The Reportorial Brigade

Still another species of the genus, homo scutariensis, is the reportorial lad who garners oilfield news for publication. The industry in these forward times is liberally dotted with scout services, publishing practically complete information on all

drilling wells and all wells about to be drilled in their particular districts. The "dope" contained in these reports, many of which are issued daily, is largely developed by phone. With radio-equipped cars dashing about the oil fields, and other means of intercommunication improving and extending rapidly, news from the remotest operating and speculative areas can become available to properly advised executive offices in a matter of minutes after it happens.

The Current Qualifications

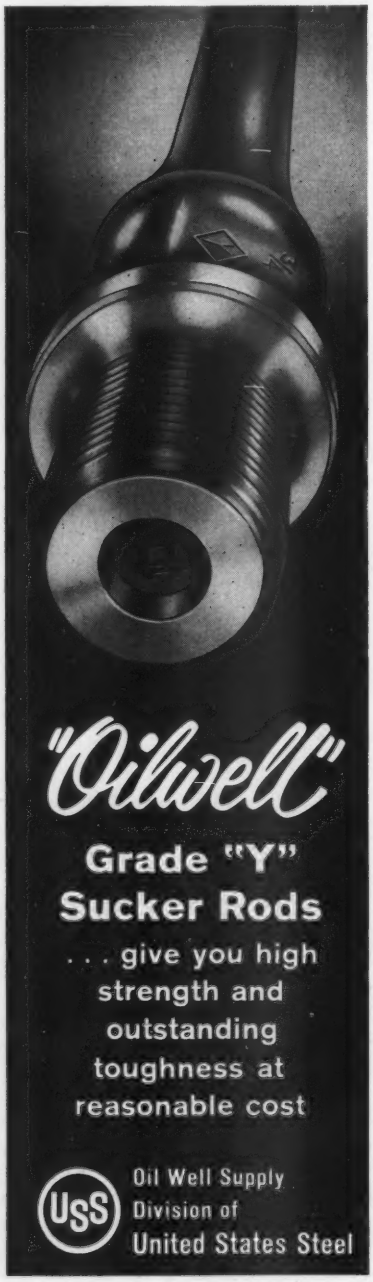
Summing it all up, it would appear that the ideal accoutrements of a successful oil scout are powers of observation and analysis, a logical mind, and the peculiar ability to be always, or nearly always, where pertinent things are happening. He is much like a news reporter trying to beat his competitors to innumerable scoops, and it doesn't matter whether he is employed by an oil company, an independent client, or a publication, his value depends entirely on the accuracy and alacrity of his reporting.

What Happens Next

Future development is in the lap of the gods. Who knows, microphonic bugs may be surreptitiously spotted, on derrick floors, in core houses, in land offices, or other strategic locations, picking up the merest whisper and at the proper time and place amplifying them to easy and profitable, although somewhat amoral listening! Or the whole scouting art may some day be turned over to a new race of Dunningers who will wrench the secrets of the underground from Mother Nature by sheer force of will. For the moment, however, the location of promising oil properties and the gathering of field data, remain simple deductive processes, and in this area of operation, the landman and his scout aids, are still the indispensable men.

Multimillion Gas Line Planned Texas-California

Now that the $50,000,000, 750-mile pipeline from the Four Corners area is carrying crude oil to the Los Angeles area, interest shifts to plans for the building of a $193,000,000 natural gas pipeline from west Texas and the Oklahoma-Texas Panhandle region to the California-Arizona border. An application to construct the 1305-mile line has been filed in Washington by the Transwestern Pipeline Company of Houston, Texas. The application as filed with the Federal Power Commission indicated the line will have an initial capacity of 350,000,000 cubic feet daily. The main line will be 30 inches in diameter and will push out 670 miles from Roswell, New Mexico, to Topock, Arizona. Roswell will be the converging point for two 24-inch laterals, of which one will travel into the far northeastern part of the Texas Panhandle to near Beaver and Ellis Counties, Oklahoma, and the other in the Pecos sector in west Texas. Pacific Lighting Gas Supply Company was given as Transwestern's only customer. Plus reserves it is understood to have already tied-up, Transwestern has made arrangements for gas supplies from the Paradox and San Juan Basins.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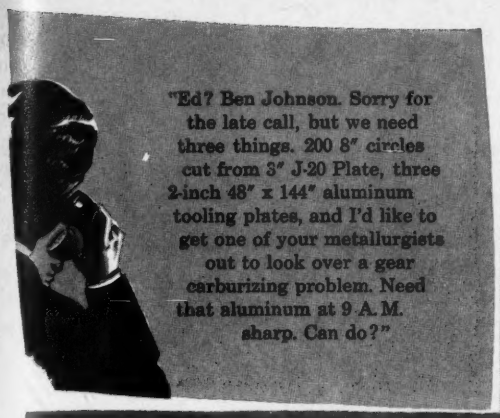
McMillan Heads New Pipeline Company

John R. McMillan of Los Angeles is president of Transwestern Pipeline Company, who also is executive vice president and director of Monterey Oil Company. Mills Cox of Houston, is executive vice president of Transwestern. W. B. Padon of Tulsa is a vice president, Marshall Brown of Los Angeles, a vice president, Col. J. R. Butler of Houston, secretary-treasurer, and R. M. Chan of Dallas, consultant. The line is owned by a combination of interests made up of Monterey Oil, Col. Butler and W. K. Warren of Tulsa. Chan retired a year ago as first vice president of Magnolia Petroleum. McMillan, Padon, Cox, Chan and Butler are members of the Transwestern board.

Oil Man Russell Widens Interests

W. Scott Russell, holder of the major portion of the block of ground in the Pine Mountain area where Standard of California wildcatted for oil a couple of years ago, is understood to have acquired borax rights on more than 600 acres east of the Marine Base in the vicinity of Mojave. Under lease agreement with Southern Pacific Land Company and others, Russell will begin drilling by March of 1961 and dig to basement at 2000 feet or a deposit of saline ore. Kerr-McGee and Kern County Land Company have been active in like searches in the general area.

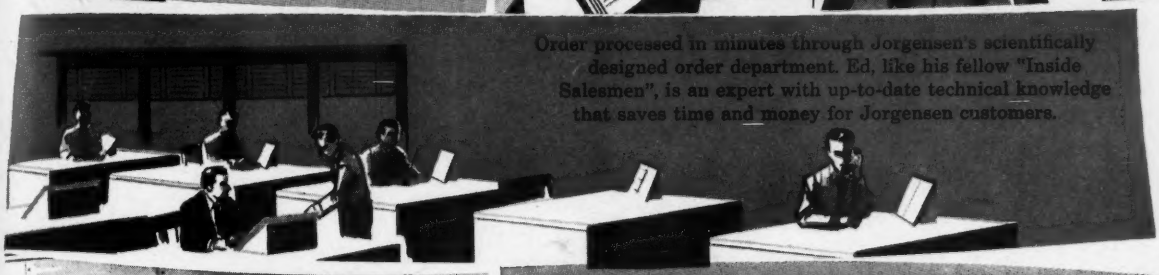
W. W. Flenniken of Denver, widely known in the Rocky Mountains and the Four Corners areas, has been re-elected a director of the Braniff Airways.



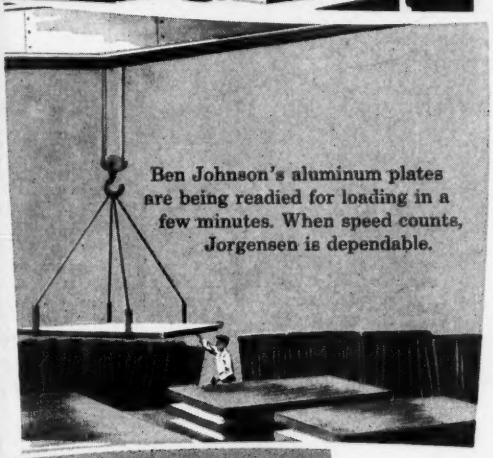
"Ed? Ben Johnson. Sorry for the late call, but we need three things. 200 8" circles cut from 3" J-20 Plate, three 2-inch 48" x 144" aluminum tooling plates, and I'd like to get one of your metallurgists out to look over a gear carburizing problem. Need that aluminum at 9 A.M. sharp. Can do?"

"Ben, you know you can depend on Jorgensen."

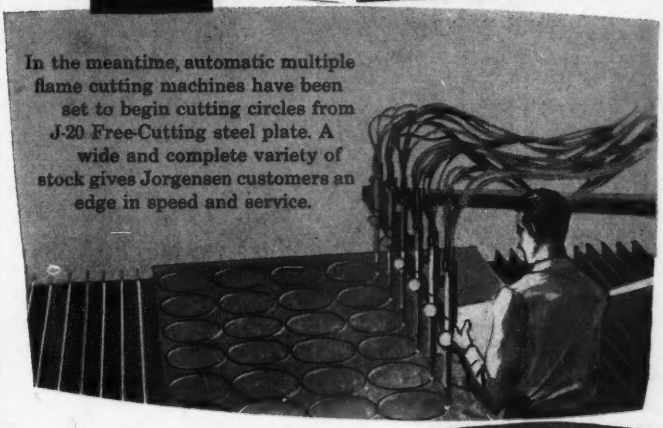
We can get that aluminum stock out for you easily. I'll have a metallurgist see you tomorrow on the carburizing problem. OK?"



Order processed in minutes through Jorgensen's scientifically designed order department. Ed, like his fellow "Inside Salesmen", is an expert with up-to-date technical knowledge that saves time and money for Jorgensen customers.



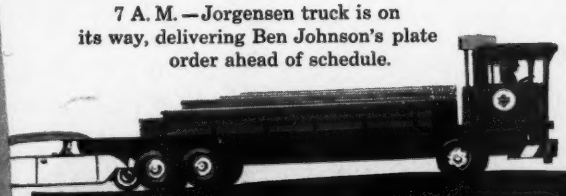
Ben Johnson's aluminum plates are being readied for loading in a few minutes. When speed counts, Jorgensen is dependable.



In the meantime, automatic multiple flame cutting machines have been set to begin cutting circles from J-20 Free-Cutting steel plate. A wide and complete variety of stock gives Jorgensen customers an edge in speed and service.

"Ben, I think we've licked this carburizing problem. By raising the quenching temperature we can increase the gear hardness. Shouldn't be any trouble now. Anything else come up, just call."

7 A. M. — Jorgensen truck is on its way, delivering Ben Johnson's plate order ahead of schedule.



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Field Development

Fillmore Field Wells Starting

The Texas Company has started work on its Sespe-McNab No. 4 well on Section 24-4n-20w in the Fillmore field in Ventura County, with Sun Drilling Company the contractor. Richfield Oil Corporation, meantime, is preparing to start operations on another deep well, Richfield-Union-Fillmore Community No. B-1, on the same section. Rocky Mountain Drilling Company has the contract.

Helm-Lanare Well Abandoned

Redrilled and deepened to 7039 feet, Patrick A. Doheny has abandoned Hawn No. 1-23 well on Section 23-17s-18e in the Helm-Lanare field of Fresno County. Two Fresno County wildcats in the preliminary stages are Perry Drilling Company's Swearingen No. 1 on Section 16-17s-18e in the Helm area, and W. R. Ude Company's No. 1 on Section 6-16s-12e in the Silver Creek area.

San Joaquin Lists Three Test Wells

Test wells at one stage or another in San Joaquin County, include Hancock Oil Company's HOC-Shell-Sorenson No. 1 on Section 25-1s-4e, northwest of Tracy, Great Basin Petroleum Company's Tracy Land & Water Co. No. 66-14 on Section 14-3s-6e in the Vernalis area, and San-Cal Oil & Gas Corporation's Robidart No. 1 on Section 7-3n-9e in the Linden area.

North Tapo Test Abandoned

Western Gulf Oil Company has abandoned its N. L. & F. No. 1 wildcat test on Section 35-4n-18w on the northwest border of the North Tapo Canyon field in Ventura County. Wells in the field are producing from the Upper Miocene at an average depth of 1355 feet.

South Mountain Well Flowing Oil

Flowing 128 barrels of 33 gravity oil a day through a 20/64-inch choke, Universal Consolidated Oil Company's Harvey-Snyder No. 1 on Section 13-3n-21w at South Mountain in Ventura County has been finaled at a total depth of 7777 feet.

Summerland Well Staked

Standard Oil Company is preparing to drill Standard-TWA-Seaside State No. 1 wildcat test on Section 22-4n-26w at Summerland in Santa Barbara County. It is designated as a 3000-foot test.

Antelope Valley Wildcat Slated

Fairmont Exploration Company will drill Lane No. 1 exploratory well on Section 3-8n-15w in the Antelope Valley area in Los Angeles County. Cliff Zillgitt Drilling Company has been assigned the work.

Dead Mountain Wildcat Deepening

Flamingo Oil Company is deepening from 2098 feet its Flamingo No. 1 wildcat well on Section 18-10n-21w in the Dead Mountain area of San Bernardino County. The project

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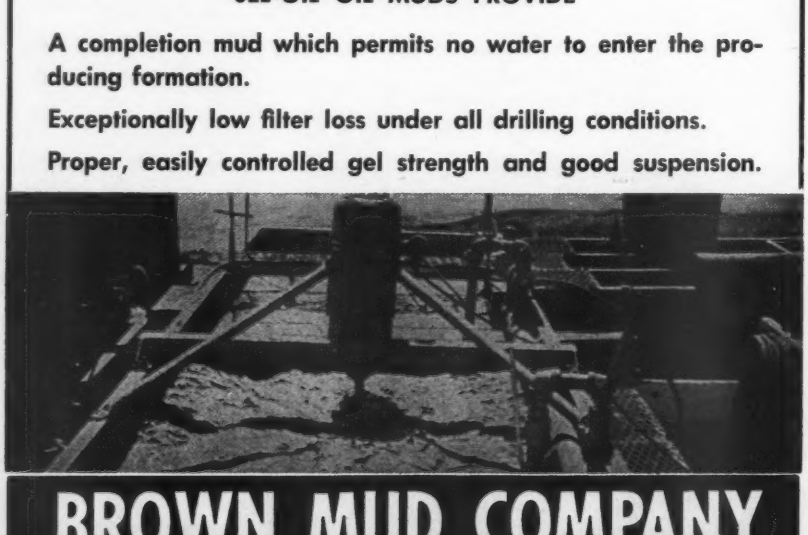

BROWN MUD COMPANY

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has made good drilling progress since stopping for a while at 2098 feet.

Whittier Well On Production

Phillips Petroleum Company's Simmons No. 308 well on Section 35-4s-13w in the Whittier field is in from a plugged depth of 4660 feet for 50 barrels of 13 gravity oil a day, cutting five per cent. Total depth is 4717 feet.

Gaviota Field Report Incorrect

Harrison Producing Company's Harrison-Fox No. 1 well on Section 35-5n-32w in the Gaviota area of Santa Barbara County is at a primary stage only as this is jotted down. A report carried in these columns several weeks ago that the well at that time was drilling near 1000 feet was incorrect and is a matter of regret of the publisher. Location of the well is between Gaviota and Captain.

Northeast Coalinga Wildcat Ends Search

Verde Enterprises, Operator, Pauson No. 61-1 wildcat on Section 1-19s-15e, Fresno County, has been abandoned at 8776 feet, following run of electric log and sidewall sampling. Location was on the north border of the Amerada sector of the East Coalinga Extension field, where wells are producing from around 7800 feet in the Gatchell zone in the Eocene formation. In the Camden area, Fresno Exploration Company, Inc., has pulled out at 6200 feet from its Craig No. 1 test on Section 36-16s-19e.

Cymric Wells On Production

Harding & Surgener has completed its Anderson No. 4 Cymric field outpost well on Section 8-29s-21e for 21 barrels daily of 13.4 gravity oil, cutting initially about three per cent, from a total depth of 907 feet. On the Bolton lease, Harry H. Magee, Operator, has finaled No. 8 well on Section 22-29s-21e at 1404 feet for a last reported yield of 12 barrels of 12.5 gravity oil a day, cutting about 10 per cent.

Richfield Scores North Tejon Discovery

Richfield Oil Corporation has clicked with an important new discovery approximately one mile west of the North Tejon field in southern San Joaquin Valley. The project, KCL 1 No. 81-24 on Section 24-11n-20w, was completed at a total depth of 9559 feet from some 200 feet of sand for an initial output of 1050 barrels of 34 gravity clean oil a day through a 20/64-inch bean. Gas yield was 1,680,000 cubic feet daily and tubing pressure 1950 pounds. On a later gauge through an 8/64-inch orifice, the well was doing 240 barrels of oil and 340,000 cubic feet of gas daily. Tubing pressure was 2250 pounds. The discovery was made on property of the Kern County Land Company, three miles north and east of the Wheeler Ridge field. Richfield's find pushes out Vedder production one mile west from the North Tejon field, where Reserve Oil and Gas Company has completed three wells. They are producing from the Vedder, but are a couple of thousand feet lower than the Richfield well. Reserve at present is drilling two additional wells in the field, one a Vedder test and another a deep test of the Eocene. Another drilling job is likely to be drilled in the near future on acreage offsetting the Richfield discovery.

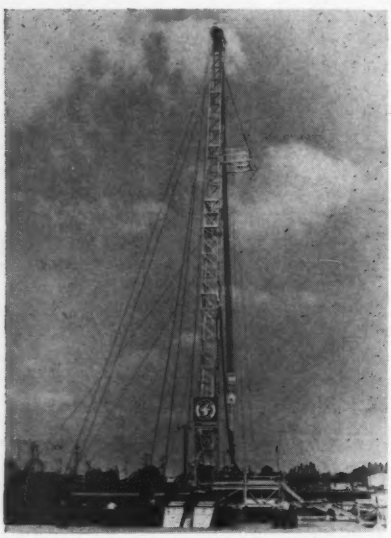
Tejon Hills Find Recorded

Approximately a half-mile west of nearest production in the Tejon Hills field, O. M. Slosson has made an interesting discovery with Tejon No. 51 well on Section 16-11n-18w. Drilled to a total depth of 2713 feet, the venture was credited with oil and from 2235 to 2315 feet. Reports from the field the sand occurrence was above the DK horizon and beneath the basalt and that the zone may be of Lower Miocene age, which does not give up elsewhere in the field. The well, on a 5½-hour test, flowed 29 gravity oil at a daily rate of 300 barrels, before going on pump. Representative gauge was not available at this writing.

Brown Drilling Company Introduces New Portable Rig

Continuing its long established policy of keeping available for use the latest in advance design, the Brown Drilling Company has just put on display its most recent acquisition, a new portable light weight drilling rig, designed, engineered and manufactured by the Bender Engineering and Manufacturing Company of Bakersfield.

Aptly named the "Mighty Mole" by Ned Brown, the new rig features extreme portability by employing dual trailers, which are easily positioned by a novel matting arrangement with guide tracks and fastened with patented wedge lock connectors. The rig utilizes aluminum and other light weight metals to conserve hauling costs and enhance the ease and speed of placing the equipment on jobs in difficult terrain.



Side view of the Mighty Mole.

The trailer mounted, 126 foot telescoping mast, raised by drawworks power with wire line and lever lift legs, has a hook load capacity of 320,000 lbs. with 8 lines. The new mast design eliminates the necessity for ground guy lines. The crossover type crown features fast and dead line pull to rear giving nearly equal loading on all four legs. Crown sheaves include one 36″ fast line; one 42″ dead line; three 36″ clusters and one 20″ sand line sheave. Mast dimensions are 134 feet, clear height, ground to bottom of water table beams; 126 feet, rotary table floor to bottom of water table beams. Width is 9 feet. Overall height, over the road on trailer, 13 feet 6″ and overall length 74 feet 10″. The hinged racking platform has capacity for 9000 feet of 4½″ drill pipe with standard tool joints or more than 11,000 feet of 4″ drill tubing with modified tool joints.

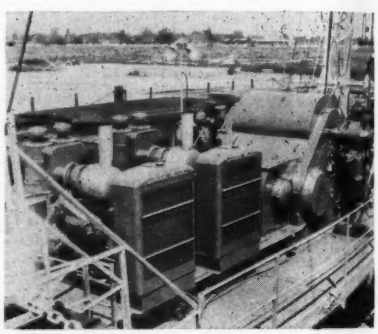
The rig is moved in thirteen compact loads—all of which are road legal, except the mast load which is permit legal. Known officially as Brown Rig No. 7, the unit is planned to be competitive on jobs ranging from 4000-9000 feet.

The rig is equipped with an Emsco GC-350-T double drum drawworks, driven by two General Motors Diesel turbo charged engines, Model 62408T, rated at 348 h.p. each at 1800 rpm, driving through Allison TCHD 855 dump type converters and a Lawless Brothers compound. Drawworks is equipped with 22″ Parkersburg Hydro Brake and one Foster 15 MD spinning line cathead and one Foster 33 type "B" master breakout cathead.

Five main engines are used all of which are General Motors Model 62408T RD Diesels.

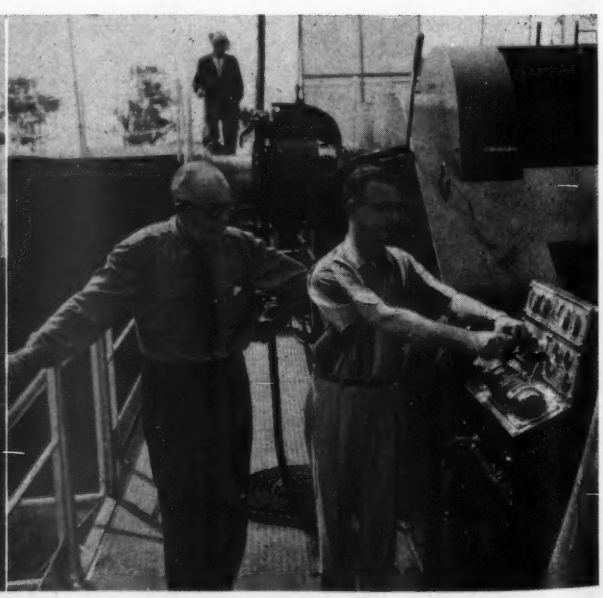
Two skid mounted pumps are used: One Emsco D300 (7¼x14) and one Emsco DA-500 (7½x16) power slush pump.

(Continued on Page 22)



Two General Motors turbo-charged Diesels power the Emsco double drum drawworks through Allison dump-type converters and Lawless Bros. compound.

Left to right: Ned Brown, Art Heiser, E. A. Bender and Bob Sharp look over the new rig.



Ned Brown and Art Heiser at the control console.

We took a tip from a typist

The question came up at a Heads-of-Departments meeting. Production told Personnel that his new typist asked that a portion of her salary be set aside for U. S. Savings Bonds. Could it be arranged?

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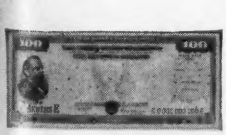

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Bishop Oil Add Mount Poso Well

Bishop Oil Company has registered a nice producer in the Mount Poso field. Its Pongratz No. 6 on Section 10-27s-28e came in pumping 48 barrels a day of 16 gravity oil, cutting three per cent. The well, drilled to a total depth of 1851 feet, was given the final touch with 33 feet of perforations in the Vedder zone.

Shell Drilling Gosford Wildcat

Shell Oil Company is drilling steadily ahead with its KCL No. 71-33 wildcat on Section 33-30s-27e or three miles southeast of the East Gosford field in Kern County. The well, which is more than half way toward the objective 13,000 feet, is designed as a test of the Upper and Lower Stevens and also the deeper Vedder sands. Contract driller is Camay Drilling Company. East Gosford took on new importance with the completion of Universal Consolidated Oil Company's Statex-KCL No. 47-13 on Section 13-30s-26e as the first dual well in the area. The well started off at the rate of 1055 barrels a day from a total depth of 9636 feet. Soon cut back, the last reported output from the Upper Stevens was 240 barrels of 33 gravity oil, through a 12/64-inch bean, and 141,000 cubic feet of gas a day. The Lower Stevens is currently putting out 237 barrels of 33 gravity oil, through a 12/64-inch orifice, and 1,567,000 cubic feet of gas daily. This is the fifth well brought to a successful finish in the area by Universal Consolidated.

Panama-Old River Wildcat Foreseen

Shell Oil Company, which recently acquired some 2200 acres in the Panama-Old River area in Kern County, is considering the drilling of an exploratory well on Section 33-30s-27e. The leases were originally assembled by Lon V. Smith two years ago and subsequently assigned to Atlantic Oil Company, which turned them to Shell.

Hollywood Drilling Only Few Weeks Away

Union Oil Company, which wherever it has drilled in urban areas has set a pattern of operational excellence, is only weeks away from getting going with the drill on the Paramount Picture lot in the center of Hollywood. The initial test, Paramount No. 1, will be directionally drilled to a depth somewhere around 5000 feet to possible oil deposits under adjacent land. Residents in the area and parties to a community lease have been anticipating the exploratory campaign for a couple of years and geological consensus looks favorably upon oil prospects thereabouts. The Paramount property is along Melrose avenue, west of Western avenue, south of Santa Monica boulevard and east of Gower street. Union Oil's program has a chance of duplicating what has been done in Beverly Hills on the Twentieth Century-Fox Studio lot, which has given Universal Consolidated Oil Company a string of excellent producers with more to come. All drilling in the forthcoming campaign will be carried on from the Paramount ground and interfere in no manner with the normal residential and civic life of the district. Contractor is Santa Fe Drilling Company.

Texota Oil Plans Wildcat Drilling

Texota Oil Corporation has entered into farmout agreements with other organizations calling for the drilling of at least six wildcat wells in the Paradox Basin, San Juan County, Utah. In addition, Texota in its individual right in the next weeks or so will put down two wildcats in the San Juan Basin in New Mexico, and one each in Wyoming, Montana and North Dakota. Texota maintains headquarters in Denver.

Entrada Sells Oil and Gas Leases

Entrada Oil & Gas Company, widely known Denver firm, will be the recipient of $500,000 from its sale of an undivided one-half interest in federal and state leases in San Juan, Uintah and Grand Counties, Utah, and Mesa County, Colorado, to Jupiter Oils, Ltd., New York. Entrada holds 47,870 acres in the Utah counties and 14,080 acres in Colorado's Mesa County. The land is in active oil and gas producing areas.

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Monticello Well Drilling Steadily

Sinclair Oil & Gas Company is moving with the drill toward objective depth of 6500 feet with its explorer southeast of Monticello, San Juan County, Utah. The well is designated Federal-Friedman No. 1 on Section 4-35s-24e. Richfield Oil Corporation is down several thousand feet with its Coalbed Canyon Unit No. 5, and Carter Oil Company is under way with Leverton-State No. 1 on Section 32-33s-26e in the general area. In the McElmo Creek field, Carter Oil's Navajo No. 16 114 is in for 350 barrels a day on Section 17-41s-25e.

Big Four Corners Drilling Program Set

Three States Natural Gas Company has earmarked $1,200,000 for field development operations during the current year. With the exception of some $100,000, the money will be expended on work at the Four Corners. One of the company's most important properties is its 1,280-acre spread in San Juan County, New Mexico. Other land was recently benefited by Shell Oil Company's successful extension of the Bluff pool. The 38,000-acre block was farmed out to Shell by Three States, with the latter retaining a 38 per cent working interest and a three per cent overriding royalty.

Mohave County Wildcat Going on Pumping Unit

Roger A. Fields' Federal No. 1-X exploratory well on Section 17-38n-7w in the South Antelope sector, Mohave County, Arizona, is ready for the pump at a plugged depth of 1138 feet. Drilled to a total depth of 1159 feet, oil showings are credited the venture at a number of intervals. Word from the San Simon Valley in Cochise County indicated that

L. A. Thomson and Robert Manley have given up their State No. 1 wildcat on Section 10-16s-31e at 5440 feet, after recovering fish. Sterling Oil Company of Oklahoma holds interest in the play. This same operating group is said to be considering additional wildcatting on Section 2-24s-31e or about 48 miles south of the recent duster.

Roswell Test Making Ready

Sun Oil Company is ready to set in motion its C. F. Waller No. 1 wildcat well on Section 26-12s-28e or about 23 miles south and east of Roswell, Chavez County, New Mexico. Designed as an 8500-foot test of the Devonian, the venture is located a mile northwest of the well given up lately as a duster by Sohio Petroleum Company. The drill site is also southwest of production in the White Ranch field by 15 or 16 miles.

Jones & Laughlin Publishes Pipe Specification Pamphlet

A four-page pamphlet containing information about a newly-developed rigid plastic pipe encased in a steel jacket has been prepared by Jones & Laughlin Steel Corporation.

The new J&L product, known as "Jal-Jacket", combines the pressure-retaining strength of steel pipe with the chemical resisting qualities of unplasticized polyvinyl chloride pipe. It is expected to be used widely in the petroleum and chemical industries and in other fields where corrosion is a problem.

The pamphlet contains specifications, line drawings and other pertinent information.

Copies are available by writing: Public Relations & Advertising Department, Jones & Laughlin Steel Corporation, 3 Gateway Center, Pittsburgh 30, Pa.

Cities Service Oil Company's exploration offices at Albuquerque have added Paul Gribas as a staff geologist. He formerly was associated with the company in the main offices at Bartlesville.

Brown Drilling

(Continued from Page 18)

The rotary table is an Oilwell 17½" permanently carried on the mast trailer and driven through a right angle drive from the drawworks.

Traveling block is a McKissick 4 sheave rated at 150 tons with Web Wilson Hydra hook.

The swivel is an Oilwell 150 ton capacity.

Bender mud shaker and mud suction tanks are skid mounted for easy loading and transporting.

The Bender combination water, mud and fuel tank has retractable wheels so it may be set onto the ground where it forms an anchor for the mast load lines and for the drawworks trailer.

Three Bender combination pipe bins and racks complete the major equipment.

"I think it is noteworthy that the Brown Company is showing its faith in the future and in the oil industry in general by pioneering this novel piece of cost-cutting equipment," said A. J. Heiser, Vice President of Brown Drilling Company. He added: "We feel that the utilization of a rig of this size offers a distinct advantage to the operator. The Mole will move onto a job in 13 compact loads and because trucks and cranes are an important and ever increasing part of every contractor's costs, we feel that we shall be able to offer the industry quite an economy feature by being able to get onto the job with the least expense and carry on the work with greater efficiency."

The Stenderup property in San Joaquin Valley, where Union Oil Company during the past year or so has accounted for important oil development, is owned by Viggo and Soren Stenderup. The brother migrated from northern Europe to the valley some 25 years ago and they hold some of the most fruitful and luscious vineyards in the world.

Oil Man Andy Eklund, who has been touring Fiji and other far away places, has returned to Southern California and his petroleum interests.

New Bill On Oil Shale

Legislation has been duly approved by the Administration granting producers of synthetic fuels—from oil shale and coal—the same 27.5 per cent depletion tax allowance now law as regards petroleum producers.

Elevation of Dr. R. A. Tuller to division geophysical technical supervisor for Pan American Petroleum Corporation's Rocky Mountain operations, has been announced.

A young gob phoned his station and requested an extension of his pass, but was told to return immediately.

"But I can't," he protested. "There are ten of us at this party, and we're having too much fun to break it up."

"How come your leaving the party will break it up?" snapped the petty officer at the station.

"Well, you see, chief," said the gob, "nine of us are girls!"

My next door neighbor owned a Tom cat which was very amorously going out every night romancing. As a result, the whole neighborhood got little sleep. On not hearing Tom one night, I inquired as to what had happened to him. I was told that Tom was at the "Vet's" and that his love life had been stopped dead in its tracks. However, I noticed Tom going out the very first night he was home, and I asked my neighbor how come.

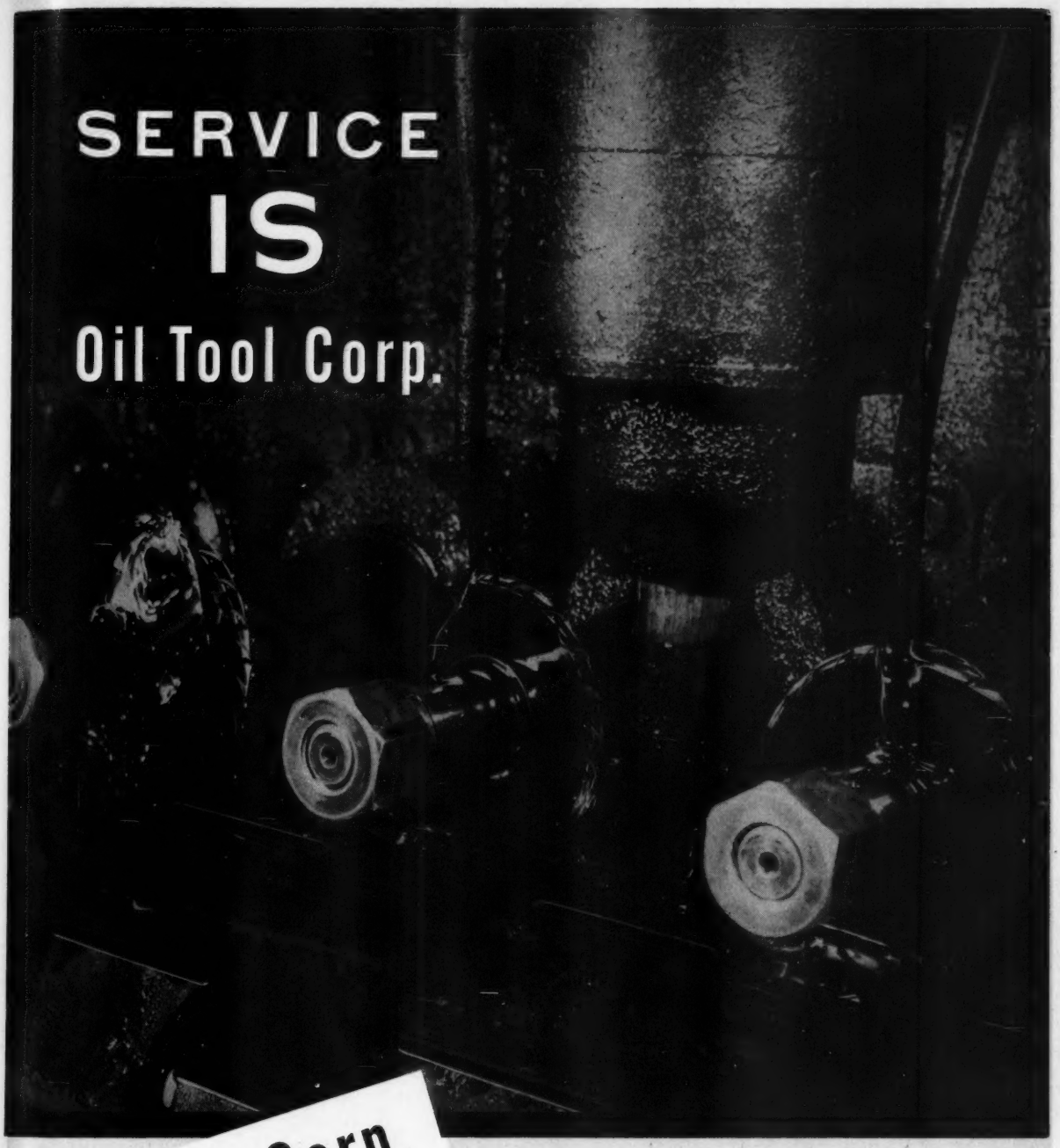
He told me not to be concerned, that Tom was now going out on a consulting basis only.

"You need to relax and get away from it all," the doctor told his patient. "Could you go abroad?"

"Sure could, Doc," said the patient. "What's she like?"

With the advent of the Bikini bathing suits, the beaches nowadays display a wide variety of feminudity.

Asked the old question, "If you were marooned on a desert island, what would you like to have for reading matter?" a chorus girl unhesitatingly replied, "A tattooed sailor."



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Personalities IN THE NEWS

Clare D. Gard Receives Hanlon Award

The Hanlon Award, highest honor in the natural gasoline industry and one of the ranking awards in the petroleum industry, was conferred today on Clare D. Gard, Chief Process Engineer, (retired) Union Oil Company of California, Pasadena, California. The presentation was made at the 37th Annual Convention of the Natural Gasoline Association of America being held in the Baker Hotel, Dallas.

Mr. Gard is the 22nd recipient of the Hanlon Award which is conferred each year by the NGAA for outstanding service to the natural gasoline industry. Donor of the Award is E. I. Hanlon, Chairman of the Board, National Bank of Tulsa, and a pioneer in the natural gasoline business.

The presentation was made by NGAA President, George Tennison, Shell Oil Company, Houston. The citation read in part: "Obviously, this man has been a constructive force in the industry. He not only contributed ideas, but he stimulated the generation of ideas in others. He came to know many men and made most of them his friends, so he was not just a 'doer' but a warm human being. Today we are recognizing this man for his individual work and his cooperativeness with others in bringing about better design and operation of natural gasoline plants, his imaginative approach to the solution of problems for which early text books had no answers, and for the fundamental advancements in industry techniques which he originated."

Mr. Gard was born in New Burlington, Ohio, where he obtained his elementary and high school education. He obtained a B.S. degree in Electrical Engineering from the University of Southern California and then spent two years in the Navy in the first World War. On leaving the service, he became estimating engineer for the Bureau of Power & Light in the City of Los Angeles. In 1921 he joined the staff of Union Oil Company in experiments with different types of trays for use in gasoline plant absorbers. As a result of this work, the perforated type tray was adopted by his company and became the standard type for the industry.

By 1941 he had become Chief Process Engineer for the company and held that position until his retirement in 1957 after thirty-seven years of continuous service. Mr. Gard was active in committee work of several technical societies and associations and played a leading role in the development of many of the operating techniques which later became industry standards and he originated many new practices and plant designs which improved the quality and volume of plant products.

Guest speaker and international guests at the April 9, 1958 meeting of the Los Angeles Chapter of Nomads. Left to right (standing) Karl B. Jauman of Santa Fe Drilling Co. from Kuwait; Norbert Lindemann, Helmut Meder and H. H. Bernhard of Preussag from Germany; Bill Black of Baker Oil Tools from Venezuela; (seated) Donald McKirk of Texas Petroleum Co. from Colombia; Ralph B. Watson, speaker; Dave Evans from Venezuela.

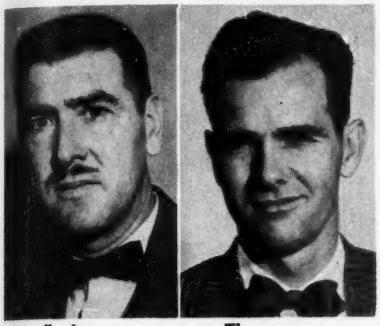
Lewis Lacy, assistant secretary of Sunray Mid-Continent Oil Company, has been elected secretary and treasurer of the concern, and Miss Murva F. Renfrow, assistant secretary. Miss Renfrow was formerly supervisor of stockholders relations.

William N. Roper, Los Angeles engineering and management consultant to the oil and gas industry, has been retained in an advisory capacity by the Development Board, Ministry of Development of the Government of Iraq. He left for Iraq about a month ago and probably will return to Los Angeles in a few weeks.

Clifford M. Brake, a veteran of nearly 40 years in oil, is active in the Farmington area in New Mexico as salesman for Hillmac, division of American Coldest Corporation. His home office is in Denver.

Anderson is Plant Manager for Tretolite of California

W. Wallace Anderson has been named plant manager of the Tretolite Company of California Division of Petrolite Corporation at Los Angeles, by L. T. Monson, general manager of that division.



Anderson Thompson

He succeeds C. N. Stehr, who is now on special assignment for Petrolite Corporation.

Anderson joined Tretolite Company of California in 1935 and was employed in research and development for more than 11 years. In 1947 he became assistant plant manager. He is a registered chemical engineer in the state of California.

The position of assistant plant manager vacated by Anderson will be filled by Claude D. Thompson, who has been with Tretolite Company of California since World War II as plant operator, draftsman, engineer, and division safety director. He served in Naval Aviation during the war.

Citation for his achievement in the field of labor-management has been presented Reese H. Taylor, Union Oil Company of California board chairman. The award was presented at the 10th anniversary dinner of Loyola University's Industrial Relations Center at Rodger Young Auditorium in Los Angeles.

A two-week course in interpretation and analysis of resistivity and radio-activity logging has been offered recently to fourteen men of the Sales Department of Welex, Inc. The course was held in the Welex Research and Development Laboratory in Houston, and was conducted by R. B. Smith. The course was presented as a means of providing the salesmen with all necessary information concerning techniques and systems of logging.

Those who completed the course are (left to right in the photograph above): A. A. Taylor, division radioactivity logging engineer, Midland; J. S. Webb, logging operator, Corpus Christi; C. W. Cook, rigman, Pampa; E. M. Elbert, assistant district manager, San Angelo; (R. B. Smith, instructor) second row, F. W. Blankenship, sales engineer, Crane; J. B. Cross, sales engineer, Wichita Falls; L. A. Cobb, division radioactivity logging engineer, New Orleans; A. E. Choate, logging trainee, Woodward; B. R. Putman, division radioactivity logging engineer, Denver; Tom Hansen, assistant district manager, Odessa; R. E. Sandlin, logging operator, Hays; Wally Melynk, district manager, Welex of Canada, Ltd., Edmonton; George Harcourt, city salesman, Tulsa; and M. L. Tetrick, logging operator, Bakersfield.

Henry Beamer (left) receives plaque of commendation for 44 years of service with General Petroleum Corporation upon the occasion of his retirement. The plaque is presented by Harry Carrothers, General Petroleum production superintendent, at the Long Beach Petroleum Club.

Henry A. Ruysser, Jr. to Head Oilfield Tank Manufacturers Assn.

Henry A. Ruysser, Jr., Executive Vice President of Black, Sivalls & Bryson, Inc., was elected President of the Oilfield Tank Manufacturers Association at a recent meeting of the association in McAllen, Texas, according to E. H. Zachariae, Secretary.

Mr. Ruysser, a former Vice President and member of the executive committee of the association, had served as President since May, 1957, filling out the incompleted term of I. W. Lovelady, Sivalls Tanks, Inc.

E. M. Burt, President of Burcamp Steel Company, was elected Vice President and J. E. Fogarty, Vice President of Graver Tank and Manufacturing Company was elected Treasurer. Newly-elected members of the executive committee, who will serve with Ruysser, Burt and Fogarty, are: G. O. Marchant, President of Continental Tank Company; Tyson Smith, President of Tyson Smith Company; Charles Sivalls, President of Sivalls Tanks, Inc.; and C. D. Haehl, Jr., General Manager, Production Equipment Division, Parkersburg Rig and Reel Company.

THIS

LAUGH OFF!!

"Which platform for the Boston train?" the old lady asked the porter.

"Turn left and you'll be right," he answered cheerfully.

"Don't be impertinent, young man!" she said.

"Oh, very well, then," reported the porter, "turn right and be left."

A small boy attending his first wedding ceremony, asked his mother why the bride was dressed in white. "Because," she answered, "white stands for purity and joy." "Then why," he demanded, "does the groom wear black?"

"Any physical defects?" asked the draft board Doctor.

"Yes, sir," replied the inductee, "No guts."

Passenger: "You'll bring me down safely won't you?"

Pilot: I've never left anyone up there yet!"

There wasn't any holding the guy when he started bragging about his girl's beauty. "She's marvelous," he raved. "She just floated down from Heaven and landed in front of me."

"Too bad," muttered a bored listener, "that she landed on her face."

Parts Manager—"Why are you always talking about girls? Don't you know a girl is only a rag, some bone and a hank of hair?"

Mechanic — "Sure, Mac, sure, so shake hands with a happy junk dealer."

A farmer's mule kicked his mother-in-law to death. A tremendous crowd turned out for the funeral, made up almost entirely of men. The minister commented, "This old lady must have been mighty popular because so many people will leave their work to come to her funeral."

"They're not here for the funeral," said a surprised farmer. "They're here to buy the mule.

In Cleveland they tell the story of a golfing clergyman who had been badly beaten on the links by a parishioner 30 years his senior, and had returned to the club house rather disgruntled.

"Cheer up," his opponent said, "remember you win at the finish. You'll probably be burying me someday."

"Even then," said the preacher," it will be your hole."

A Frenchman, describing his national flag, said:

"It has three colors—red, white and blue. We say the colors have a connection with our taxes. We get red when we talk about them, white when we get our bills and we pay until we're blue in the face."

The American replied:

"That's just the way it is in my country, only we see stars with it."

Dealer: "And remember, my boy, a woman can make a fool of a man in 10 minutes. Why the silly look? What are you thinking of?"

Son: "Those 10 minutes."

First bum: "I hate holidays."

Second bum: "Me too, it makes me feel common when nobody ain't workin'."

"Say, did you hear about the woman who was told she had a model husband?"

"No."

"It made her happy until she looked up 'model' in her dictionary and found that it means 'a small imitation of the real thing'."

If more than one mouse is mice,
And more than one louse is lice,
Then you must agree, quite obviously
That more than one spouse is spice.

A small boy cried bitterly as a large friendly dog bounded up to him, licking his face and hands.

"What's the matter?" asked his mother. "Did he bite you?"

"No," sobbed the child, "But he tasted me."

A timid young man in a restaurant squirmed and fidgeted. Finally he beckoned to the waitress and, looking embarrassed, asked, "Could you tell me where the men's smoking room is?"

"No," replied the waitress. "You're too young to smoke."

I nearly ran over a pedestrian a few minutes ago and I think he was from Long Beach?"

"Why?"

"Why, when he reached the sidewalk, I heard him say something about the sun and the beach."

"Did you hear that the Big Four got together yesterday?"

"No, who are they?"

"Dagmar and Jane Russell!"

Stopping at the first house on his famous ride, Paul Revere cried, "Is your husband home?"

"Yes," came the reply.

"Then tell him to dress and fight the British."

At the second, third and fourth house he repeated the cry. At the fifth house, he cried, "Is your husband home?" "No," came back the answer.

"Whoa!"

I don't know why I go out with her," mused the recently returned marine. "In the first place she's too skinny . . . and in the second place, too.

Boy: "Do you know what virgins dream about?"

Girl: "Can't say that I do."

Boy: "Hmmmm . . . . just as I thought."

Two young cuties were discussing future jobs. "I'm going to be an airline hostess," said one. "You meet lots of men that way."

"There are other jobs where you meet men, too," said the other cutie.

"Yes," said the first one, "but not strapped down."

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Two String Penetration Successful with M-3 Gun, Ogival Bullets

McCullough M-3 Bullet Perforator Makes Good Well After Bullet Gun of Another Make Fails

After an unsuccessful attempt to get penetration by another service company, this Texas oil well was perforated by a McCullough M-3 Bullet Gun for a good producer.

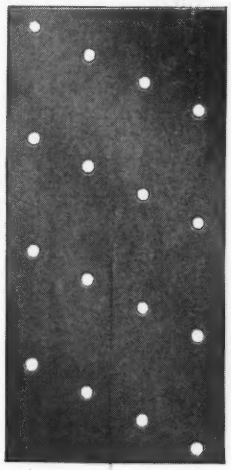
Depth of operation was 5600'. A 5" OD 18 lb. liner had been cemented in 7⅝" OD 29.5 lb. casing which was cemented in open hole.

When first perforated by another make bullet gun, the well failed to respond. McCullough was called and a 3½" OD M-3 Bullet Gun fired 18 improved ½" Ogival Bullets, six per foot, in a three foot zone. Results—a good well and a very satisfied oil man. Time on the job was only two hours.

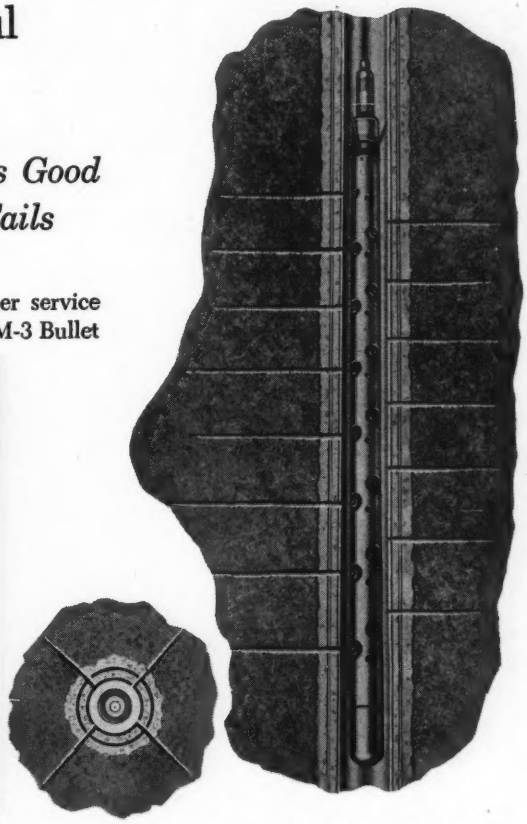
The greater penetrating power of McCullough M-3 Bullet Perforators has been proved time after time on jobs like this—penetrating two or even three strings of casing, through thick cement sheaths and deep into the producing formation—getting production or increasing production even after others have failed.

For most profitable perforating results—call for hard-shooting McCullough M-3 Bullet Guns.

The job described above is certified to be a true field report of service rendered.



Section of 5" OD casing, unrolled and laid flat to show uniformity of perforation pattern of McCullough M-3, 30-shot Bullet Gun—½" diameter holes, six shots per foot.



McCullough 30-shot M-3 Bullet Perforator. Fires all shots, one to six per foot, at one time. Three or more guns may be connected together and fired on one run.

UNIFORM PERFORATION PATTERN

... means a better oil well

One of the most valuable benefits of McCullough M-3 Bullet Perforating is the uniformity of the perforation pattern in the casing and formation. Shots are placed in a continuous spiral with uniform spacing, coinciding exactly with the pattern of the bullet chambers in the gun itself.

This permits the safe use of more holes per foot in the casing and eliminates the possibility of bunching or scattering the shots. It assures complete, uniform perforation coverage of the entire productive zone, provides maximum drainage area, best possible production.

The uniform perforation pattern combined with the fracturing power of McCullough Ogival Bullets at four to six shots per foot provides ideal conditions for further formation fracturing.

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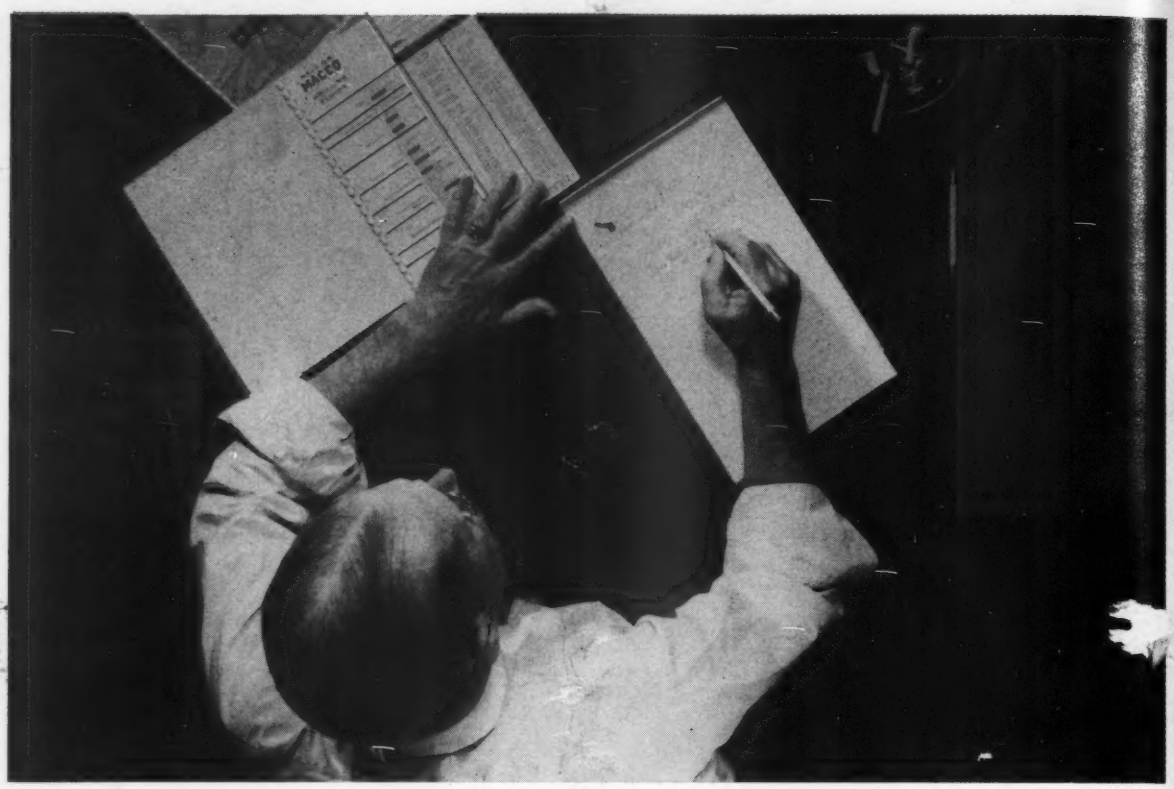

Figure it out with a "sharp pencil"... and you'll specify MACCOWATE, too!

If you are fighting to "hold the line" on costs and doing all you can to cut corners without sacrificing quality, then the following facts on MACCOWATE will be of vital interest to you.

MACCOWATE is the *only* Barite processed from select $BaSO_4$ ore. The process we employ raises the purity to the highest consistent level and eliminates contamination. This means greatly reduced costs of treating chemicals and consistently lower mud viscosities. In addition, well programs using MACCOWATE have shown consequent savings in rig time.

Any deep, high weight mud program using weight material up to ⅓ by volume of mud, should use the highest grade Barite — MACCOWATE!

The following chart shows the comparative savings in number of sacks of Barite used per 100 Bbls. of finished fluid with various specific gravity Barites.

$BaSO_4$ Specific Gravity	Final Mud Weights										
	90PCF	95PCF	100PCF	105PCF	110PCF	115PCF	120PCF	125PCF	130PCF	135PCF	140PCF
4.00	131.91	181.58	234.58	291.26	352.01	417.29	487.62	563.61	645.97	735.55	833.33
4.15	129.26	177.62	229.03	283.78	342.22	404.74	471.76	543.80	621.45	705.38	796.39
4.20	128.45	176.41	227.33	281.70	339.49	401.23	467.33	537.83	614.08	696.35	785.39
4.25	127.66	175.23	225.68	279.29	336.36	397.25	462.34	532.09	607.01	687.70	774.86
4.30	126.90	174.10	224.11	277.18	333.62	393.75	457.94	526.63	600.30	679.51	764.92
Diff. in Sks. Between 4.00 and 4.3 $BaSO_4$	5.0	7.5	10.5	14.1	18.4	23.6	29.7	37.0	45.7	56.0	68.4

MACCO

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MACCO Corporation

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